

Name: Stefan Tassoulas

CONFIRMATION?

Date: 06/18/2014

WEEKLY ONE SENTENCER:

characterize products - Anchovy

GEL LANE ORDER:

DAILY ONE SENTENCER:

Funding, comp cells  
pre-comp cells / world cup

GEL PICTURE / OTHER SPACE:

METHOD(S) OF CHOICE:

- ~~Reagent~~ prepare Reagents (500, 1000, 2000)

- TV 100

- ~~Phone for calling~~ ok...

EXPECTED RESULT:

- success

- cells prepared - culture started

☐ check if APE file exists on Drive)

TEMPLATE(S):

OLIGO(S):

THERMOCYCLER SETTINGS:

CONTROLS:

POSITIVE:

NEGATIVE:

Name: Nishi Chaudhury

Date: 6/18/14

WEEKLY ONE SENTENCER:

- Complete testing for RBS primers & parameters.
- Make competent cells.

DAILY ONE SENTENCER:

- ~~Heating time of Tryptic sample~~ | - Do cell cultures & make frozen stocks.
- ~~Make competent cells~~ | - Colony PCR
- ~~Heating & ligation, gel electrophoresis of plasmid & mercury products.~~
- Cell cultures.

- PCR

EXPECTED RESULT:

- ~ 1000 bp bands on gel ✓
- ~~all between 0.015 - 0.07 for comp cells~~

☒ check if APE file exists on Drive

TEMPLATE(S): RBS query clones ✓

OLIGO(S): RBS primers (H1, H2, M1, M2, L1)  
0362 & 0363 / RBS primer.

THERMOCYCLER SETTINGS: 94 - 2', { 94 - 15", 72 - 15", 68°C - 1.5' } x 31, 68°C - 4', 4°C ✓

CONTROLS:

POSITIVE: Amplified mercury ✓  
~ 700 bp

NEGATIVE: No polymerase ✓

CONFIRMATION? gel ✓

GEL LANE ORDER: Colony PCR

1 kb RL1 RL1 RL1C RL1C RL2 RL2 RL2C RL2C RL1 RL1C

GEL PICTURE / OTHER SPACE:

In drive named as ~~Colony~~ 140618 Colony PCR RBS+mercury

\* Also set up cell cultures of the selected A & B colonies! (in 37°C incubator)

T4 Ligase → 1 mL  
ATP → 2 mL (1 mL)  
Ligase Buffer → (2 mL)

Name: Coleen Tran

Date: 6/18/14

WEEKLY ONE SENTENCER:

Working on RBS + promoter combinations in adhering

DAILY ONE SENTENCER:

Colony PCR + culture RBS + adhering

METHOD(S) OF CHOICE:

colony PCR, cell culture

EXPECTED RESULT:

~1000 bp

(check if APE file exists on Drive)

TEMPLATE(S):

~~RBS primer~~, ~~555~~ RBS + adhering clones

OLIGO(S):

RBS primer, 363

THERMOCYCLER SETTINGS:

94-2'; {94'-15" ; 60-15" ; 68-1.5' } x31 - 68-4' ; 4C

POSITIVE:

NEGATIVE:

No polymerase

CONFIRMATION?

gel

GEL LANE ORDER:

L cell 241N RM1 RM1 RM2N RM1N

RM2 44N2 cell cell

GEL PICTURE / OTHER SPACE:

140618 Colony PCR

~~cell~~ RBS + adhering

RM2N RM2N

Name: Jennifer Chang

Date: 6/18/14

WEEKLY ONE SENTENCE: continue RBS primer/promoter

pairs testing

DAILY ONE SENTENCE:

make sure's and perform colony PCR  
digest Tion's promoter w/ mcherry at xba1 and pst1  
METHOD(S) OF CHOICE: RBS primer

PCR purification

digest at x/p

Ligate + Transform

RBS IC3

EXPECTED RESULT:

vector band ~ 2kb  
insert band ~ 408

(if check if APE file exists on Drive)

TEMPLATE(S): promoter RBS

mcherry

PH1 RM1 PH2 RL1

OLIGO(S):

THERMOCYCLER SETTINGS:

60' - 37°C; 80°C - 20'; 4°C - 4 hrs

CONTROLS:

POSITIVE:

insert + : 808 bp

vector : 2 kb

NEGATIVE:

no enzymes

CONFIRMATION?

gel

GEL LANE ORDER:

1 kb negative

mcherry vector

GEL PICTURE / OTHER SPACE: 140618\_PSBIC3-x/p-ends.jpg

digest:

insert:

x 12.5 ml BDA

x 0.5 ml xba1

x 0.5 ml pst1

x 2 ml buffer

x 4.5 ml H2O

vector:

x 5 ml BDA

0.5 ml xba1

0.5 ml pst1

x 2 ml

x 12 ml

420 buffer

ligation:

PH1 : 3.09 (insert)  
RM1 : 1.91 (vector)

PH2 : 2.90 (insert)  
RL1 : 2.04 (vector)

T4 ligase -> 1 ml

ATP -> 2 ml

ligase buffer -> 2 ml

- finding
- checking of items (verifying)
- think about outreach

Name: Kathryn Fittion

Date: 01/16/14

WEEKLY ONE SENTENCER:

CONFIRMATION?

gels

GEL LANE ORDER:

Keep testing RBS primers/promoters ✓  
DAILY ONE SENTENCER:  
oligost measuring plasmids 2 promoter RBS mcherry's  
look at colonies from plates; ~~grow up cultures~~  
run 1000 mcs; ~~make competent~~  
METHOD(S) OF CHOICE: ~~run gel for mcherry's extract~~  
run gel for mcherry's extract  
purify, purify PCR product  
or  
transform RBS primers  
ligation ✓ gel extraction  
transform ✓ gel purification  
EXPECTED RESULT: colonies on LB/can plates ✓  
band @ 2 kb on mcherry plasmid gel  
check if APE file exists on Drive  
TEMPLATE(S): mcherry / RBS-mcherry  
OLIGO(S):  
THERMOCYCLES SETTINGS: 60'-37°C; 20'-80°C; 4 min  
CONTROLS:  
POSITIVE:  
NEGATIVE: w/o enzymes ✓

GEL PICTURE / OTHER SPACE:

140618 - PS31C3 - x17 - ends. jpg

Two promoter RBS pairs testing:  
PH1 RM1 & PH2 RL1

Two primer pairs

T4 ligase → 4 µL

ATP → 8 µL

Ligase buffer → 8 µL